

## CLIMATOLOGICAL DATA FOR AUGUST, 1911.

## DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

## GENERAL SUMMARY.

The weather during August was favorable for farming operations and outdoor work of every description. There was plenty of water for irrigation purposes and the ranges, although dry, furnished the average amount of feed for stock. Numerous small forest fires were burning at the end of the month, but the damage done by them was less than usual. The run of salmon in the Columbia River was better than it has been for a number of years. No severe storms occurred, and there was scarcely any interruption to traffic by washouts. Country roads were reported in good condition throughout the month, and general satisfaction was expressed in all sections regarding the effect of the month's weather on crops.

## TEMPERATURE.

The monthly mean temperature for Oregon and Washington averaged about  $1^{\circ}$  below normal, no very great departures being noted. Idaho and those portions of Montana, Wyoming, Nevada, and Utah lying within this district report temperatures considerably lower than the average for August, the average deficiency for this portion of the district being about  $2.5^{\circ}$ . The greatest negative departure occurred in south-central Idaho.

The average temperature for the district, as determined from the records of 259 stations, was  $64.3^{\circ}$ , which is  $1.3^{\circ}$  below the average for August. The mean temperatures ranged between  $77.4^{\circ}$  at Blalock, Oreg., and  $53.5^{\circ}$  at Tatoosh Island, Wash. The highest temperature recorded was  $104^{\circ}$  at Blalock, Oreg., on the 19th, and also at Kennewick, Wash., on the 17th. The lowest was  $22^{\circ}$  at Chesterfield, Idaho, on the 25th.

In the eastern portion of the district the warmest period was from the 16th to the 19th, and in the western portion, from the 21st to the end of the month. The coolest periods were from the 20th to the 25th in the eastern and from the 16th to the 18th in the western portion.

## PRECIPITATION.

The average monthly rainfall exceeded the normal throughout the extreme northern portion of the district, while over the central and southern portions it was generally below normal. Over large areas in the southern half of the district no precipitation occurred during the month. Where rain was recorded, it fell generally during the first 8 days of the month, although occasional showers occurred between the 19th and the 26th, principally west of the Cascades and in western Montana.

The average for the district, as determined from the records of 368 stations, was 0.41 inch, which is 0.21 inch

below the normal for August, but is just double the amount for August, 1910. The greatest monthly amount recorded was 2.96 inches, at Sedro-Woolley, Wash. One hundred and twelve stations reported no precipitation during the month. The greatest 24-hour rainfall was 1.97 inches, at Sedro-Woolley, Wash., on the 20th.

## THE RIVERS.

The rivers continued to fall during August, and the average stage for the month was much lower than for July, but the departures from normal were not large enough in any case to be worthy of special mention.

The Columbia River averaged 0.2 foot below the normal stage for August. The departure from normal at The Dalles was  $-1.7$  feet; at Cascade Locks, with a normal determined from a shorter period of observations, the departure was  $+0.1$  foot. The highest stages occurred on the 1st of the month and the lowest on the 31st. Compared with the mean stage for July, the average was 9.8 feet lower.

The Willamette averaged 0.5 foot below the August normal; it was 0.5 foot below at Portland and 0.4 foot below at Salem. The highest readings occurred during the first few days of the month and the lowest during the last few days, with a maximum stage of 8.4 feet at Portland on the 1st and a minimum stage of  $-1$  foot at Harrisburg from the 26th to 31st, inclusive.

The mean stage on the Snake River was 0.1 foot above the normal. The highest stage reported was 2.8 feet at Riparia on the 1st, and the lowest 0.5 foot at Lewiston on the last 3 days of the month.

## MISCELLANEOUS.

Thunderstorms were general over the district from the 3d to 5th and 13th to 15th of the month, and local thunderstorms occurred on various dates at a number of stations, most of which are in the eastern part of the district. Hailstorms occurred at several stations in the Willamette Valley on the 14th and at a few stations in the eastern section during the month.

The prevailing wind direction was west, and the highest maximum wind velocity reported was 50 miles, from the southwest, on the 14th at Walla Walla, Wash. The next highest velocity was at Lewiston, Idaho, where a maximum velocity of 49 miles from the north occurred on the 4th. Dust storms occurred at a number of stations in the central and eastern sections.

Sunshine was slightly below normal for the month, the greatest deficiency being in the western part of the district. Killing frosts occurred at a few stations in the eastern mountainous section; elsewhere the frosts were light and of minor importance.

TABLE 1.—*Climatological data for August, 1911. District No. 12, Columbia Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Montana.</i>																				
Anaconda.....	Deer Lodge.....	5,300	10	57.9	- 3.5	86*	19	35*	27	40	1.83	+ 0.99	0.65	0.0	9	21	4	6	C. D. Demond.	
Butte.....	Silver Bow.....	5,716	17	60.4	- 2.3	86	18	34	24	39	1.70	+ 0.79	0.40	0.0	6	13	7	11	J. R. Wharton.	
Columbia Falls.....	Flathead.....	3,100	16	60.7	- 1.6	94	19	31	26	51	1.78	+ 0.32	1.02	0.0	8	15	8	8	J. M. Grist.	
Como**.....	Ravalli.....	3	60.9	97	19	35	24	45	1.26	.....	0.53	0.0	0	6	23	5	3	Hiram Platt.		
East Anaconda.....	Deer Lodge.....	5,500	6	60.2	.....	86	19	38	27	36	1.46	.....	0.52	0.0	8	21	4	6	C. D. Demond.	
Fortine.....	Lincoln.....	2,975	6	56.9	.....	88	18	27	22	53	1.30	.....	0.70	0.0	10	12	8	11	Mike Petery.	
Hamilton.....	Ravalli.....	3,575	8	61.4	.....	90*	19	40*	21†	39*	1.62	.....	0.70	0.0	6	22*	7*	1*	Bitter Root Valley Irrig. Co.	
Hat Creek.....	Powell.....	6,000	2	.....	.....	.....	.....	.....	.....	.....	2.13	.....	0.80	0.0	10	8	14	9	M. K. Landreth.	
Kalispell.....	Flathead.....	2,965	13	60.4	- 2.5	88	31	38	26	39	1.44	+ 0.55	0.78	0.0	9	13	12	6	Weather Bureau.	
Libby.....	Lincoln.....	2,055	2	.....	.....	.....	.....	.....	.....	.....	1.88	.....	0.88	0.0	4	16	9	6	Miss M. E. Simmonds.	
Lost Creek.....	Deer Lodge.....	5,200	2	.....	.....	.....	.....	.....	.....	.....	1.88	.....	0.88	0.0	4	16	9	6	Frank Henault.	
McGinnis Meadows.....	Lincoln.....	5,225	32	63.8	+ 0.8	96	19	36	24	52	0.43	- 0.38	0.24	0.0	5	.....	.....	.....	H. L. Beebe.	
Missoula.....	Missoula.....	5,225	32	63.8	+ 0.8	96	19	36	24	52	0.43	- 0.38	0.24	0.0	5	8	6	7	Weather Bureau.	
Ophir.....	Powell.....	8,800	2	.....	.....	.....	.....	.....	.....	.....	0.48	0.0	0.48	0.0	8	18	6	7	E. S. Wilton.	
Ovando.....	do.....	4,207	12	54.6	- 3.3	90	18	28	13	50	1.18	+ 0.24	0.49	0.0	8	0	31	0	S. B. Muchmore.	
Philipsburg.....	Granite.....	5,275	8	57.5	.....	.....	.....	.....	.....	.....	0.27	0.0	0.27	0.0	0	22	0	9	G. T. Bramble.	
Plains.....	Sanders.....	2,475	13	61.8	- 2.0	90	30	37	21	42	1.38	+ 0.45	0.80	0.0	3	12	15	13	M. H. Fierce.	
Pleasant Valley.....	Flathead.....	3,500	4	54.7	.....	87	19	25	27	57	1.72	.....	0.40	0.0	0	12	15	3	A. D. Stillman.	
Polson.....	do.....	2,920	4	62.0	.....	88	31	40	25	38	0.98	.....	0.30	0.0	0	9	17	2	F. P. Brown.	
Proctor.....	do.....	2,800	7	60.4	.....	88	31	38	24†	42	2.30	.....	0.70	0.0	9	17	2	12	C. E. Proctor.	
Saint Ignatius.....	Missoula.....	2,700	6	60.6	.....	91	19	35*	24	45*	1.19	.....	0.31	0.0	10	19	8	4	U. S. Reclamation Service.	
Saint Regis.....	do.....	2,650	4	59.9	.....	95	18	29	24†	58	1.55	.....	0.67	0.0	5	27	19	5	R. D. Lee.	
Saitese.....	do.....	3,600	7	.....	.....	.....	.....	.....	.....	.....	1.95	.....	1.33	0.0	4	27	0	4	E. K. Tarbox.	
Thompson Falls.....	Sanders.....	2,462	.....	.....	.....	.....	.....	.....	.....	.....	0.46	0.0	0.46	0.0	13	13	7	11	R. H. Bushnell.	
Willow Glen St'k Farm.....	Deer Lodge.....	5,064	1	57.4	.....	85*	16†	32	23†	44*	1.51	.....	0.62	0.0	7	11	14	6	G. E. Luce.	
<i>Wyoming.</i>																				
Afton.....	Uinta.....	6,200	7	58.3	- 1.7	90	17†	24	21	54	0.00	- 1.19	0	0	0	30	1	0	A. V. Call.	
Alta.....	do.....	7,000	1	55.1	.....	86	17†	21	24	52	0.21	.....	0.18	0.0	2	15	15	1	Mrs. Lucy Brown.	
Bedford.....	do.....	5,900	11	57.4	- 1.4	93	23	25	21†	61	0.00	- 1.35	0	0	0	31	0	0	C. G. Heiner.	
Bechler River.....	Yellowstone Park.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.62	.....	0.45	0	6	25	6	0	U. S. Army.	
Moran.....	Uinta.....	7,000	5	53.9	.....	86	19	26	21	54	0.40	.....	0.20	0	3	22	7	2	U. S. Army.	
Snake River.....	Yellowstone Park.....	7,000	5	53.9	.....	86	19	26	21	54	0.40	.....	0.20	0	3	22	7	2	U. S. Army.	
<i>Nevada.</i>																				
San Jacinto.....	Elko.....	6	60.6	.....	93	17	29	21	55	0.00	.....	0	0	0	26	5	0	sw.	Mose Jones.	
<i>Utah.</i>																				
Standrod.....	Boxelder.....	6	65.0	.....	89	19	40	24†	38	0.06	.....	0.06	0	1	29	2	0	nw.	T. B. Jones.	
<i>Idaho.</i>																				
Albion.....	Cassia.....	4,650	10	63.4	- 3.9	97	17	29	25	56	T.	- 0.41	T.	0	0	29	2	0	w.	G. A. Axline.
Almo.....	do.....	3	.....	.....	.....	.....	.....	.....	.....	0.02	.....	0.02	0	1	25	5	1	s.	William D. Cahoon.	
Alpha.....	Boise.....	1	62.2	- 6.1	94	14	26	23†	61	T.	- 0.44	T.	0	0	28	0	3	w.	J. W. King.	
American Falls.....	Oneida.....	4,341	20	62.2	- 6.1	93	17†	30	25	53	T.	- 0.67	T.	0	0	27	4	0	sw.	Harry W. Hall.
Blackfoot.....	Bingham.....	4,503	16	62.7	- 3.9	93	17†	36	24†	43	0.00	.....	0	0	0	23	7	1	w.	E. A. Dowd.
Blackfoot Dam.....	Bannock.....	6,200	2	63.6	.....	91	17†	36	24†	43	0.00	.....	0	0	0	27	4	0	sw.	N. W. Irsfield.
Bogus Creek.....	Boise.....	4,200	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	0	F. P. Ingraham.	
Boise.....	Ada.....	2,739	26	69.5	- 2.3	94	18	49	23	38	T.	- 0.16	T.	0	0	24	7	0	nw.	U. S. Weather Bureau.
Bonners Ferry.....	Bonner.....	1,850	5	60.9	.....	91	18	34	26	50	2.17	.....	1.33	0	5	13	16	2	sw.	W. H. Heideman.
Boulder Mine.....	Boise.....	4,800	2	69.6	.....	102	19	32	20	48	T.	.....	.....	.....	0	28	3	0	Patrick Moriarty.	
Buhl.....	Twin Falls.....	3,800	5	69.6	.....	92	17†	40	25	48	T.	.....	.....	.....	0	21	10	0	Hugh Taylor.	
Caldwell.....	Canyon.....	2,372	7	66.8	.....	92	17†	40	25	48	T.	.....	.....	.....	0	21	10	0	Wm. J. Boone, D. D.	
Camas.....	Fremont.....	4,815	3	64.2	.....	97	18	30	24	53	0.04	0.03	0.03	0	2	24	0	0	Mrs. Edna Faulkner.	
Cambridge.....	Washington.....	2,651	16	67.8	- 2.9	97	17	37	25	53	0.00	- 0.40	0.00	0	0	31	0	0	Chas. H. Shepherd.	
Cedar Creek Dam.....	Twin Falls.....	1	.....	.....	.....	.....	.....	.....	.....	.....	0.10	0.10	0.10	0	1	24	7	0	Robert Hoffman.	
Chesterfield.....	Bannock.....	5,424	15	58.2	- 1.9	96	15	22	25	64	0.00	- 0.99	0.00	0	0	25	6	0	nw.	Chas. S. West.
Clyde.....	Custer.....	4,800	2	59.2	.....	85	18	37	24†	47	T.	.....	.....	.....	0	23	8	0	R. L. Sutcliffe.	
Cottonwood Creek.....	Boise.....	4,000	2	.....	.....	96	13	37	27	47	T.	.....	.....	.....	0	21	10	8	Frank Hedrick.	
Council.....	Mesa.....	1	68.4	.....	.....	96	13	37	27	47	T.	.....	.....	.....	0	27	3	1	Dick Ross.	
Culdesac.....	Nez Perce.....	1,520	3	68.4	.....	103	17	41	31	57	0.10	0.05	0	0	2	27	3	1	R. R. Richmond.	
Deary.....	Latah.....	1	.....	.....	.....	.....	.....	.....	.....	.....	0.00	0.00	0.00	0	0	0	0	H. P. Henry.		
Dent.....	Clearwater.....	1,350	5	66.2	.....	103	17	38	23†	57	0.48	0.36	0	3	22	9	0	Emil Schuessler.		
Driggs.....	Fremont.....	6,097	4	57.2	.....	86	17	28	24†	47	0.16	0.16	0	1	18	7	6	Geo. B. Edie.		
Edie.....	do.....	2	57.4	.....	83	18†	33	25	43	0.68	0.40	0	2	25	6	0	C. R. Kar.			
Eminett.....	Canyon.....	2,360	4	.....	.....	91	17	31	28	54	0.94	0.20	0	9	29	14	9	M. B. Merritt.		
Forney.....	Lemhi.....	14	56.9	- 2.1	89	13	27	24	59	0.27	- 0.35	0.24	0	2	13	10	8	Joseph M. Clarke.		
Garden Valley.....	Boise.....	3,600	5	.....	.....	102	31	37	16	61	0.00	0.00	0	0	19	11	1	Fred Perry.		
Garnet.....	Elmore.....	2,575	12	73.4	- 3.6	102	31	37	16	61	0.00	- 0.08	0.00	0	0	24	6	1	U. S. Forest Service.	
Glenns Ferry.....	Blaine.....	2,569	3	70.4	.....	102	17†	36	25	58	0.00	0.00	0	0	31	0	0	I. E. Perkins.		
Gooding.....	Lincoln.....	3,572	2	65.6	.....	96	31	37	23†	53	0.00	0.00	0	0	29	2	0	John Krall, jr.		
Grand Forks.....																				

TABLE 1.—Climatological data for August, 1911. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.					
<i>Idaho—Continued.</i>																							
Middle Fork.	Idaho.	1,250	2	63.4	.....	96	31	35	21	50	0.32	.....	0.16	0	3	13	18	0	.....	Jos. McGhee.	w.		
Milner.	Twin Falls.	4,110	7	68.0	.....	98	18	43	21†	49	0.00	.....	0.00	0	0	27	3	1	.....	James K. Young.	ne.		
Moscow.	Latah.	2,748	20	64.4	-1.0	96	17	42	9	43	0.76	-0.03	0.20	0	6	11	14	6	.....	University of Idaho.	.....		
Mountainshome.	Elmore.	3,150	6	65.6	.....	98	31	33	25	54	0.00	.....	0.00	0	0	27	4	0	.....	Mrs. Ellen Manion.	nw.		
Murtaugh.	Twin Falls.	5	65.6	.....	91d	18†	36d	25†	50d	0.00	.....	0.00	0	0	0	0	0	0	.....	J. E. Steinour.	w.		
Nezperce.	Lewis.	3,082	12	61.6	.....	92	17	34	21	47	1.00	.....	0.53	0	4	23	4	4	.....	P. Mitchell.	s.		
Oakley.	Cassia.	4,700	18	67.8	-1.6	99	17	40	21†	48	0.00	-0.60	0.00	0	0	19	11	1	.....	John Adams.	.....		
O'Hara Bar.	Idaho.	1,400	7	64.4	.....	90	19	40	26†	45	1.09	.....	0.52	0	4	14	13	4	.....	J. D. Agnew.	.....		
Orofino.	Clearwater.	1,027	7	67.4	.....	102	17	42	21†	53	0.59	.....	0.52	0	4	17	14	0	.....	Geo. Alteneder.	.....		
Payette.	Canyon.	2,159	20	69.2	-3.2	99	18	42	28	51	T.	-0.21	T.	0	0	25	4	2	.....	E. F. Allen.	n.		
Peaceful Valley.	do.	2,325	1	60.2	.....	91	17†	26	25	56	T.	.....	T.	0	0	21	10	0	.....	J. M. Newton.	sw.		
Pebble.	Bannock.	5,277	3	60.2	.....	85	6†	28	2	51	0.00	.....	0.00	0	0	29	1	1	.....	Mrs. Fannie Say.	.....		
Pierson.	Custer.	7,000	3	57.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	David P. Clarke.	.....	
Pleasant Valley.	Ada.	3,000	4	68.3	-2.3	94	12	41	27	43	0.01	-0.55	0.01	0	1	23	8	0	.....	C. E. Freidrick.	se.		
Pocatello.	Bannock.	4,453	12	61.2	.....	94	18	28	23†	57	0.00	.....	0.00	0	0	22	7	2	.....	U. S. Weather Bureau.	.....		
Pocatello Nursery.	do.	5,396	5	64.4	.....	92	17†	32†	15	56	0.00	.....	0.00	0	0	4	20	5	6	.....	Mrs. Anna M. Wrensted.	s.	
Poplar.	Bonneville.	.....	.....	64.4	.....	92	31	26	39	1.27	+ 0.32	0.63	0	0	0	0	0	0	.....	C. M. Lawrence.	.....		
Porthill.	Bonner.	1,665	22	60.3	-2.9	84	31	37	26	39	0.00	.....	0.00	0	0	30	1	0	.....	H. A. French.	.....		
Pyle Creek.	Boise.	3,100	2	65.8	.....	95	17†	35	21	51	0.00	.....	0.00	0	0	21	10	0	.....	P. V. Smith.	.....		
Richfield.	Lincoln.	.....	.....	53.7	.....	86	17†	22	27	.....	0.15	0.15	0	1	6	25	0	0	.....	Idaho Irrigation Co.	.....		
Roseberry.	Boise.	.....	.....	64.9	.....	94	17	39	25†	50	T.	.....	0.24	0	1	6	25	0	0	.....	Rev. H. F. Barstow.	.....	
Roseworth.	Twin Falls.	.....	.....	64.9	-1.6	90	17	39	22	45	0.87	-0.02	0.30	0	7	15	10	6	.....	D. B. Hartwell.	w.		
Rupert.	Lincoln.	4,204	5	64.9	.....	94	17	39	25†	50	T.	.....	0.24	0	0	30	0	1	.....	Will Parry.	.....		
St. Maries.	Kootenai.	2,263	15	62.6	-1.6	90	17	39	22	45	0.87	-0.02	0.30	0	7	15	10	6	.....	J. S. Turnbull.	.....		
Salmon.	Lemhi.	4,040	6	63.0	.....	93	18	38	24	47	0.27	.....	0.14	0	4	24	7	0	.....	B. C. Easum.	.....		
Salmon River Dam.	Twin Falls.	4	67.8	.....	95	17	44	21†	42	0.19	.....	0.19	0	1	24	7	0	.....	Arch M. Gilbert.	n.			
Sandpoint.	Bonner.	2,086	1	60.4	.....	89	31	32	24	51	1.20	.....	0.80	0	6	17	6	8	.....	J. H. Edgerton.	.....		
Sheep Hill.	Boise.	5,000	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	20	10	1	.....	Clifford M. Gardner.	w.		
Shoshone.	Lincoln.	3,968	4	.....	.....	.....	.....	.....	.....	.....	0.02	.....	0.02	0	1	20	10	1	.....	A. O. Truman.	.....		
Silver City.	Owyhee.	6,280	4	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	0	0	0	0	.....	J. E. Minear.	nw.	
Soldier Creek.	Blaine.	1	60.6 <sup>a</sup>	.....	88 <sup>a</sup>	17	37 <sup>a</sup>	11†	45 <sup>a</sup>	0.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. C. Krause.	.....	
Spirit Lake.	Kootenai.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. W. A. Edwards.	.....	
Sugar.	Springfield.	4,420	3	64.9	.....	98	17	30	23	56	T.	.....	T.	0	0	14	17	0	.....	Utah-Idaho Sugar Co.	.....		
Sunnyside.	Fremont.	2,200	2	68.4	.....	97	12	40	25	48	T.	.....	T.	0	0	26	3	2	.....	E. A. Wilmot.	.....		
Triod Mountain.	Boise.	4,300	2	.....	.....	87	20	39	25†	52	0.04	.....	0.00	0	0	28	2	1	.....	Mrs. Verna Paddock.	.....		
Twin Falls.	Twin Falls.	3,825	6	66.0	-1.0	90	18	31	21	47	0.08	-0.42	0.04	0	1	13	10	8	.....	J. A. Waters.	.....		
Vernon.	Fremont.	14	61.2	.....	92	18	37	26	48	2.70	.....	0.84	0	8	0	2	22	7	2	.....	A. M. Slattery.	.....	
Wallace.	Shoshone.	2,728	4	61.0	.....	92	17	38	26	48	0.00	.....	0.00	0	0	26	5	0	.....	U. S. Weather Bureau.	.....		
Wendell.	Lincoln.	3,400	3	68.5	.....	100	17	37	25	55	0.00	.....	0.00	0	0	0	0	0	0	.....	C. L. Dingler.	.....	
<i>Washington.</i>																							
Aberdeen.	Chelan.	162	20	61.2	+ 0.2	89	23	40	17	41	.77	-.29	.59	0	4	12	17	2	w.	C. S. Weatherwax.	.....		
Anacortes.	Skagit.	60	17	60.0	.....	78	17	41	18	35	1.16	+.29	.76	0	4	25	3	3	.....	Douglas Allmond.	.....		
Baker.	do.	200	5	65.4 <sup>b</sup>	.....	89 <sup>d</sup>	22	43	20	37 <sup>d</sup>	2.73	.....	1.87	0	3	17	6	8	.....	R. M. White.	.....		
Bellingham.	Whatcom.	60	16	60.8	+ 0.2	79	23†	44	17	34	1.70	+.61	.93	0	5	23	5	3	.....	S. B. Mayhew.	.....		
Bellingham, near.	Grant.	107	6	60.4	.....	91	22	41	16	36	1.38	.....	1.09	0	6	14	13	4	.....	U. S. Bur. of Plant Industry.	.....		
Beverly.	.....	545	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Blaine.	Whatcom.	57	14	59.6	-0.4	80	26	40	16	37	1.45	+.62	.56	0	5	9	19	3	sw.	John W. Sheets.	.....		
Blewett.	.....	2,200	1	60.4	.....	90	31	42	21	42	1.45	+.62	.56	0	5	19	11	1	sw.	John Burmeister.	.....		
Bremerton.	Kitsap.	30	.....	.....	.....	.....	.....	.....	.....	.....	.07	.....	.06	0	2	5	19	11	1	sw.	U. S. Navy Yard.	.....	
Brewster.	Okanogan.	1,620	1	69.9	.....	94	17†	50	21	37	.41	.....	.17	0	5	19	11	1	sw.	Mrs. H. F. Bertram.	.....		
Bumping Lake.	Yakima.	3,400	5	57.2	.....	86	18	34	21	42	.41	.....	.25	0	3	20	1	10	.....	U. S. Reclamation Service.	.....		
Cedar River.	King.	535	4	.....	.....	.....	.....	.....	.....	.....	.42	.....	.24	0	3	19	4	8	.....	George Landsburg.	.....		
Centralia.	Lewis.	212	18	62.6	-1.4	90	27	37	16	47	.37	-.44	.37	0	1	14	11	6	w.	I. M. Turner.	.....		
Cheney.	Spokane.	2,351	12	65.4	.....	90	31	42	21	42	.87	.....	.50	0	4	21	10	0	.....	J. E. Buchanan.	.....		
Cle Elum.	Kittitas.	1,930	12	62.5	+ 0.3	92	17	34	22	53	.73	+.35	.58	0	3	23	8	0	.....	J. A. Balmer.	.....		
Clearbrook.	Whatcom.	140	8	60.3	.....	87	26	36	16	47	.93	.....	.84	0	7	11	6	14	.....	George Gibbs.	.....		
Colfax.	Whitman.	2,300	22	63.8	-1.6	97	18	34	25	54	.03	-.56	.05	0	1	13	11	7	sw.	I. B. Doolittle.	.....		
Colville.	Stevens.	1,635	11	63.2	-2.5	95	18	36	23	53	.98	+.22	.52	0	5	13	11	7	sw.	W. L. Sax.	.....		
Conconully.	Okanagan.	2,300	11	64.2	-0.4	89	17†	40	23	45	.03	.....	.24	0	8	21	4	6	.....	Wm. Baines.	.....		
Cowiche.	Yakima.	1,874	6	63.2	.....	90	31	46	20	32	.44	.....	.43	0	2	17	13	1	sw.	U. S. Reclamation Service.	.....		
Crescent.	Lincoln.	2,250	11	.....	.....	88 <sup>b</sup>	18†	44 <sup>b</sup>	8	37 <sup>b</sup>	1.71	.....	.64	0	4	20	3	6	.....	Otto Wollweber.	.....		

TABLE 1.—Climatological data for August, 1911. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<b>Washington—Contd.</b>																				
Lakeside.	Chelan.	1,116	20	71.0	- 1.5	94	18	53	51	38	.60	+ .23	.24	0	5	8	23	0	w.	W. H. Van Meter.
Laurel.	Klickitat.	1,900	2	68.2	- 0.8	93	19	42	34	38	.05	- .03	.03	0	2	18	13	0	sw.	Mrs. Minnie E. Strout.
Laurier.	Ferry.	1,644	1	66.1	- 0.8	97	18	40	22	51	1.01	- .45	.45	0	7	9	10	12	sw.	Mrs. J. S. Myers.
Lester.	King.	1,614	7	64.1	- 1.3	91	17	38	29	41	1.01	- .38	.38	0	0	0	0	0	nw.	U. S. Engineer Corps.
Lone Tree.	Chehalis.	14	2	58.8	- 2.4	78	23	48	29	24	.45	- .32	.32	0	6	11	8	12	nw.	U. S. Forest Service.
Longmires Springs.	Pierce.	2,800	2	67.7	- 1.2	92	17	47	25	44	.57	- .30	.30	0	3	17	8	6	n.	P. H. Leese.
Lost Creek.	Okanogan.	3,125	2	64.8	- 0.8	92	17	47	25	44	.57	- .30	.30	0	0	13	8	0	sw.	Mrs. Barbara Schearer.
Lucerne.	Chelan.	1,100	4	66.7	- 0.8	97	17	47	25	44	.57	- .30	.30	0	4	29	1	1	w.	Paul McConahie.
McConahie.	Grant.	1,072	7	71.0	- 1.5	97	17	47	25	44	.57	- .30	.30	0	1	24	4	3	sw.	Mrs. Mary McCumber.
McCumbers Ranch.	Yakima.	2,182	2	67.7	- 1.2	92	17	47	25	44	.57	- .30	.30	0	4	10	7	14	n.	C. C. Ward.
Moses Lake.	Grant.																			G. H. Mottinger.
Mottinger.	Benton.	307	11	74.4	- 0.4	100	17	52	23	40	.38	+ .16	.38	0	1	29	1	1	w.	Wm. M. Dorr.
Mount Pleasant.	Clallam.	500	58.7	81	26	41	10	28	70	76	.02	- .18	.02	0	6	16	10	5	sw.	H. B. Scudder.
Moxee.	Yakima.	1,000	19	69.8	0	97	17	41	27	52	.02	- .18	.02	0	1	24	4	3	sw.	Chas. M. Tamadge.
Newport.	Stevens.	2,400	1	61.1	- 0.8	91	18	33	24	35	1.67	- .31	.31	0	6	16	10	5	nw.	U. S. Weather Bureau.
North Head.	Pacific.	211	9	57.5	- 0.4	75	22	51	27	47	.23	- .33	.33	0	4	10	7	14	nw.	W. F. Case.
Northport.	Stevens.	1,350	12	64.9	- 0.6	96	18	40	71	46	.93	- .29	.44	0	6	21	3	7	n.	Albert Bender.
North Yakima.	Yakima.	1,070	2	70.4	- 1.2	92	17	45	20	35	.21	- .11	.11	0	2	23	6	2	nw.	Ruth J. Shepard.
Nutland.	Klickitat.	2	72.1	94	31	48	21	38	0	0	0	0	0	0	0	6	20	5	sw.	Wm. U. Neely.
Odessa.	Lincoln.	1,540	8	65.2	- 0.5	95	17	40	24	48	.50	- .35	.35	0	2	6	20	5	sw.	Cecil S. Willis.
Olga.	San Juan.	50	21	59.4	+ 0.2	76	23	47	14	23	1.17	+ .28	.93	0	4	17	10	4	se.	M. O'Connor.
Olympia.	Thurston.	200	33	62.1	- 0.6	89	27	38	16	46	.02	- .44	.18	0	2	19	3	9	dw.	St. John Umbrage.
Onak.	Okanogan.	850	2	70.0	- 1.0	100	17	44	21	50	.73	- .56	.56	0	4	18	2	11	n.	Elizabeth M. Slansbury.
Oroville.	Parker.	922	2	73.5	- 1.0	100	18	46	24	48	.83	- .26	.26	0	6	16	14	1	n.	
Parker.	Yakima.																			
Peola.	Garfield.	5,000	2	65.8	- 4.7	98	17	42	23	48	.68	- .52	.52	0	5	23	8	0	uw.	Samuel Gruell, sr.
Pomeroy.	do.	1,500	19	66.8	- 4.7	98	17	42	23	48	.68	- .52	.52	0	3	13	17	1	w.	Peter McClung.
Port Crescent.	Clallam.	259	16	55.2	- 1.0	83	26	40	16	37	.42	- .28	.42	0	1	7	20	4	w.	U. S. Weather Bureau.
Port Townsend.	Jefferson.	80	21	60.0	- 0.9	81	26	47	16	31	.84	+ .04	.29	0	4	16	7	8	sw.	Frank Plummer.
Pullman.	Whitman.	2,550	19	65.8	- 1.0	97	17	44	21	46	.43	- .30	.38	0	5	21	10	0	sw.	State Agricultural College.
Quets River.	Chehalis.																			C. A. Ballard.
Quinault.	do.	300	4	64.5	- 0.5	92	23	40	22	50	.65	- .47	.47	0	4	14	12	5	w.	A. V. Higley.
Republic.	Ferry.	2,628	11	61.0	- 2.2	92	18	34	27	52	.84	- .34	.34	0	8	17	4	10	nw.	G. B. Stocking.
Rex Creek.	Chelan.	1,135	4	68.8	- 1.2	92	23	50*	23	42	.19	- .24	.24	0	3	29	2	6	nw.	J. W. Nicol.
Ritzville.	Adams.	1,825	12	62.8	- 1.5	91b	30	38b	21	48b	.68	- .52	.52	0	5	23	8	0	uw.	Agent Northern Pacific Ry.
Robertsville.	Klickitat.																			R. B. Conger.
Rock Lake.	Whitman.	1,910	5	68.0	- 1.7	92	17	40	5	41c	1.07	- .36	.36	0	5	20	6	5	sw.	P. M. Ramsey.
Rosalia.	do.	2,425	19	64.8	- 0.3	89	17	42	21	38	.06	- .65	.58	0	6	22	5	4	sw.	Hans Mumml.
Russells Ranch.	Yakima.	2,870	2	62.0	- 0.5	98	17	41	5	38	.06	- .65	.05	0	1	20	10	1	w.	Miss Maggie M. Russell.
Seattle.	King.	123	20	62.6	- 0.5	81	24	50	10	27	.13	- .36	.13	0	2	12	9	10	n.	U. S. Weather Bureau.
Sedro Woolley.	Skagit.	38	14	61.0	- 0.5	83	22	41	5	38	.06	- .65	.19	0	4	21	7	3	n.	Mrs. H. L. Devin.
Sixprong.	Klickitat.	1,240	4	73.3	- 1.2	96	17	42	19	39	.01	- .65	.01	0	1	26	4	1	sw.	C. E. Comstock.
Skagit Power Dam.	Whatcom.	510	1	67.0	- 0.5	92	16	46	16	46	1.63	- .65	.81	0	9	20	5	6	nw.	Skagit Power Co.
Snohomish.	Snohomish.	100	17	61.7	- 0.6	87	23	40	25	45	.69	- .40	.47	0	4	18	4	9	nw.	Warren Hodge.
Snoqualmie Falls.	King.	667	12	63.8	- 0.6	86	22	41	16	40	.60	- .92	.50	0	2	18	6	7	nw.	O. N. Wiswell.
Snyder's ranch.	Okanogan.	2,200	2	61.7	- 0.7	98	30	34	14	51	.28	- .63	.15	0	5	19	12	0	w.	G. M. Snyder.
South Bend.	Pacific.	16	59.4	- 2.1	88	22	42	16	39	.84	- .84	.26	0	13	12	7	12	w.	Mrs. W. E. Buckingham.	
Spokane.	Spokane.	1,943	30	66.2	- 1.7	91	31	47	24	57	.37	- .16	.52	0	6	13	12	6	ne.	U. S. Weather Bureau.
State University.	King.	170	2	59.9	- 0.5	80	22	44	21	28	.12	- .66	.06	0	3	15	4	12	w.	University of Washington.
Stokes's ranch.	Okanogan.	2,670	2	67.9	- 1.7	91	31	47	24	57	.37	- .16	.26	0	8	17	12	2	nw.	Charles W. Gunn.
Sullivan Lake.	Stevens.	2,700	2	58.6	- 1.7	85*	24	34*	16	45*	.15	- .08	.08	0	2	15	4	12	w.	U. S. Forest Service.
Summer.	Pierce.	77	3	68.3	- 1.7	95	17	42	7	47	.08	- .14	.06	0	2	15	4	12	w.	H. E. Thompson.
Sunnyside.	Yakima.	740	16	68.3	- 1.7	95	17	42	5	41c	1.07	- .17	.17	0	2	15	5	0	nw.	U. S. Reclamation Service.
Tacoma.	Pierce.	213	25	62.1	- 0.9	82	27	47	16	28	.17	- .53	.17	0	2	8	6	17	n.	Do.
Tatoosh Island.	Clallam.	86	26	53.5	- 1.8	68	26	47	21	19	.35	- .176	.17	0	8	7	5	19	s.	U. S. Reclamation Service.
Tieton.	Yakima.	2,000	2	63.2	- 0.5	91	31	39	21	44	1.22	- .05	1.05	0	3	19	12	0	w.	E. H. Twilight.
Tonasket.	Okanogan.	945	71.3	98	18	50	5	38	.38	.38	.20	- .05	.27	0	1	25	6	0	sw.	D. W. Dorrance.
Toucheet Ridge.	Walla Walla.	556	4	68.9	- 1.7	97	17	40	24	51	.27	- .46	.27	0	0	1	25	6	n.	R. H. King.
Trinidad.	Columbia.	2,500	2	74.8	- 1.7	97	17	52	20	36	.17	- .10	.12	0	2	28	3	0	nw.	J. C. Wheeler.
Vancouver.	Douglas.	900	7	67.0	- 0.8	95	31	54	26	33	.02	- .43	.02	0	1	27	4	0	s.	A. A. Quarnberg.
Vashon Island.	Clarke.	100	36	66.8	- 0.6	92	27	46	16	42	.76	+ .15	.52	0	2	16	12	3	nw.	F. C. Koppen.
Wallula.	King.	40	22	59.2	- 3.8	75	27	42	25	80	.12	- .46	.06	0	2	16	8	7	n.	G. A. Wallace.
Wallace.	Okanogan.	4,000	2	73.0	- 0.8	95	31	54	26	33	.02	- .43	.02	0	1	27	4	0	s.	U. S. Weather Bureau.
Washougal.	Skamania.	650	11	64.6	- 0.4	88	24	45	16	36	.46	- .59	.23	0	2	18	9	4	w.	F. M. Grout.
Waterville.	Douglas.	2,624	21	65.0	- 1.6	92	18	39	26	46	1.46	+ .99	.50	0	7	20	10	1	n.	O. R. Hopewell.
Wenatchee, near.	Chehalan.	1,169	12	68.0	+ 0.3	97	17	49	21	30	.48	+ .14	.28	0	5	15	16	0	w.	George A. Pitcher.
White Salmon.	Klickitat.	325	67.6	94	27	47	21	44	10	10	.05	0	.05	0	3	26	4	1</		

TABLE 1.—Climatological data for August, 1911. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Oregon—Continued.</i>																				
Deadwood.	Lane.	350	1	63.2	—	92	22†	43	16	44	0.17	—	0.17	0	1	20	7	4	nw.	Jos. Slemmons.
Doraville.	Columbia.	600	10	61.6	— 0.3	86	23	44	16	34	0.38	— 0.44	0.25	0	8	13	6	12	nw.	Jos. Hackenberg.
Drain.	Douglas.	300	9	64.8	—	94	22	38	16	51	0	—	0	0	0	21	8	2	nw.	Ira Wimberly.
Echo.	Umatilla.	625	7	71.2	—	98	17	45	22†	47	0.11	—	0.09	0	2	28	2	1	w.	R. B. Stanfield.
Ella.	Morrow.	830	7	73.4	—	97	17	46	21	42	0	— 0.28	0	0	0	26	4	1	sw.	Carl F. Troedson.
Eugene.	Lane.	449	21	64.6	— 0.3	90	23	43	12	40	0	— 0.62	0	0	0	13	16	2	nw.	F. L. Barker.
Fairview.	Coos.	142	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	e.	Wm. Betrys.
Falls City.	Polk.	355	14	63.2	—	91	27	39	16	45	0	—	0	0	2	22	5	4	e.	Chas. F. Vick.
Forest Grove.	Washington.	220	65.8	— 0.1	92	23	42	6†	44	0.60	+ 0.04	0.60	0	1	3	25	3	nw.	Pacific University.	
Gardiner.	Douglas.	72	21	61.2	+ 0.1	85	21	46	25†	34	0.30	— 0.55	0.30	0	1	16	7	7	nw.	J. S. Gray.
Glendale.	do.	1,441	7	60.8	—	88	17	36	20	47	0	—	0	0	0	31	0	0	nw.	B. J. Simpson.
Glenora.	Tillamook.	575	20	61.8	— 1.3	91	28	37	16	49	0.79	+ 0.43	0.58	0	2	24	1	6	nw.	Mrs. Jennie A. Reeher.
Gold Beach.	Curry.	40	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite.	Grant.	4,680	6	66.5	—	89	30	27	24	56	T.	— 0.30	T.	0	0	12	19	0	nw.	L. N. Ford.
Grants Pass.	Josephine.	956	23	67.1	— 1.5	99	22	39	20	55	T.	— 0.30	T.	0	0	31	0	0	sw.	John B. Paddock.
Grass Valley.	Sherman.	2,381	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Agent, O. W. R. & N. Co.
Headworks.	Clackamas.	719	9	64.4	—	94	26	37	29	47	0.53	— 1.32	0.28	0	4	20	10	1	ne.	Portland Water Works.
Heppner.	Morrow.	1,950	21	66.2	— 1.9	92	31	40	27	48	0.22	— 0.05	0.13	0	2	22	9	0	nw.	Ralph M. Kenton.
Hermiston.	Umatilla.	451	5	72.4	—	97	31	42	27	50	0.52	—	0.52	0	1	21	10	0	—	C. W. Kellogg.
Hermoso Rio.	Crook.	2,300	—	63.0	—	90	30†	32	16	54	0.16	—	0.06	0	3	28	2	1	se.	Carl T. Hubbard.
Hood River.	Hood River.	300	21	65.2	— 1.3	94	28	42	31	48	0	— 0.25	0	0	0	31	0	0	w.	H. L. Hasbrouck.
Huntington.	Baker.	2,165	10	76.6	—	98	17	52	24	39	0	— 0.23	0	0	0	27	4	0	e.	L. Connell.
Jacksonville.	Jackson.	1,640	23	68.7	— 1.0	96	24	36	31	54	0	— 0.44	0	0	0	29	2	0	n.	E. Britt.
Joseph.	Wallowa.	4,400	22	61.8	— 0.2	93	17	38	20	40	0.65	— 0.10	0.50	0	4	19	9	3	s.	F. F. McCully.
Kerby.	Josephine.	—	—	67.1	—	100	22	38	20	55	0	—	0	0	0	31	0	0	s.	C. T. Canfield.
Klamath Agency.	Klamath.	4,169	3	55.4	—	91	29	24	25	66	0	—	0	0	0	29	2	0	nw.	Edson C. Watson.
Klamath Falls.	do.	4,100	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W. H. Heileman.
La Grande.	Union.	2,784	24	66.1	— 2.0	95	31	38	24†	51	0.33	— 0.20	0.33	0	1	25	5	1	nw.	W. A. Worstell.
Lakeview.	Lake.	4,825	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bert Rice.
McKenzie Bridge.	Lane.	1,400	10	62.6	— 0.4	97	22	32	21	62	0.05	— 0.78	0.05	0	1	29	0	2	sw.	Geo. Frissell.
McMinnville.	Yamhill.	182	24	69.6	—	94	23†	46	29	43	0.15	— 0.41	0.15	0	1	19	7	5	n.	J. II. Fruett.
Marshfield.	Coos.	34	10	58.8	—	79	22	42	16	31	0.06	—	0.06	0	7	—	—	—	nw.	U. S. Weather Bureau.
Medford.	Jackson.	—	—	69.6	—	97	22†	44	20†	51	T.	—	0	0	29	2	0	nw.	Do.	
Merrill.	Klamath.	4,070	5	61.0	—	89 <sup>a</sup>	28	34 <sup>a</sup>	18	47 <sup>a</sup>	0	—	0	0	0	29 <sup>a</sup>	1 <sup>a</sup>	0 <sup>a</sup>	—	Mrs. Agnes Ritchson.
Metolius.	Crook.	—	—	65.0	—	91	31	36	8	45	0.17	—	0.17	0	1	28	1	2	—	W. E. Lottman.
Mikkalo.	Gilliam.	1,400	5	68.9	—	92	31	43	21	39	0	—	0	0	0	30	1	0	w.	Frank Little.
Miramonte Farm.	Clackamas.	195	23	65.2	+ 0.2	91	23†	49	9	40	0.09	— 0.42	0.09	0	1	22	0	3	n.	G. Muecke.
Monroe.	Benton.	350	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	L. A. Peek.
Mount Angel.	Marion.	485	25	66.8	— 0.7	89	23	49	18†	36	0.06	— 0.45	0.04	0	2	22	7	2	sw.	Dr. Urban Fisher.
Mount Hood.	Hood River.	1,630	1	64.2	—	88	25	39	12	42	0.08	—	0.05	0	2	28	3	0	nw.	S. G. Babson.
Musick.	Douglas.	5,000	2	56.8	—	79	30	36	20	32	0.10	—	0.10	0	1	24	2	5	sw.	Alex. Lundberg.
Newport.	Lincoln.	69	24	58.0	+ 0.5	71	18	45	12†	30	0.37	— 0.43	0.22	0	2	14	10	7	nw.	W. M. Matthews.
Paisley.	Lake.	4,500	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E. C. Woodward.
Paulina.	Crook.	—	—	59.4	—	91	30	28	25	57	0.75	—	0.75	0	1	18	8	5	nw.	Orrin C. Mills.
Pendleton.	Umatilla.	1,070	22	68.4	— 1.8	101	31	40	4†	57	0.11	— 0.27	0.06	0	2	25	6	0	sw.	E. F. Averill.
Pilot Rock.	do.	1,817	3	70.4	—	96	31	45	8†	42	0.09	—	0.09	0	1	29	2	0	nw.	John P. McManus.
Pompeii.	Clackamas.	3,879	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E. Coalman.
Portland.	Multnomah.	57	41	67.0	— 0.1	90	23	51	16	31	0.28	— 0.37	0.15	0	3	13	12	6	nw.	U. S. Weather Bureau.
Port Orford.	Baker.	80	6	60.0	—	75	30	45	14†	23	0	—	0	0	0	26	4	1	n.	J. D. Loucks.
Prairie City.	Grant.	3,425	65.2	—	—	97	31	35	27	56	0.12	—	0.09	0	2	27	4	0	nw.	A. M. F. Kirchheimer.
Prineville.	Crook.	2,864	15	64.2	+ 1.7	94	2	34	5†	54	0	— 0.28	0	0	0	29	2	0	nw.	Geo. Summers.
Prospect.	Jackson.	2,800	5	63.0	—	96	30	33	20	55	0	—	0	0	0	22	9	0	w.	E. F. Graham.
Ramsey.	Wasco.	1,350	10	62.3	—	87	31	38	13	42	0.02	—	0.02	0	1	30	0	1	w.	Mrs. Iva B. Collins.
Range.	Wasco.	3,500	3	60.2	—	94	31	39	15	54	0	—	0	0	0	26	5	0	—	Mrs. Emma Arbuckle.
Redmond.	Crook.	—	—	63.0	—	90	30	36	21	44	0	—	0	0	0	31	0	0	w.	E. E. Foote.
Richland.	Baker.	2,350	10	—	—	97 <sup>a</sup>	17	39 <sup>b</sup>	24†	T.	—	—	0	0	0	25 <sup>a</sup>	4 <sup>a</sup>	—	sw.	L. G. Morgan.
Riverside.	Malheur.	3,000	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. Leah Fairman.
Roseburg.	Douglas.	510	33	66.5	+ 0.3	93	23	45	16	42	0	— 0.33	0	0	0	21	9	1	n.	U. S. Weather Bureau.
Salem.	Marion.	120	21	66.8	+ 0.6	89	23†	50	16	35	T.	— 0.43	T.	0	0	17	1	13	sw.	M. P. Baldwin.
Silver Lake.	Lake.	4,700	14	61.0	+ 0.1	91	9†	31	5†	53	T.	— 0.32	T.	0	0	11	19	1	nw.	L. W. Charles.
Siskiyou.	Jackson.	4,115	3	61.8	—	88	30	39	15	39	0	—	0	0	0	21	10	0	n.	U. S. Weather Bureau.
Sparta.	Baker.	4,150	20	63.8	— 4.0	93	16	40	3†	40	0.03	— 0.64	0.02	0	2	24	6	1	ne.	J. A. Wright.
Stafford.	Clackamas.	400	15	66.8	+ 0.4	94	24	46	29†	43	0.15	— 0.71	0.15	0	1	—	—	—	—	John P. Gage.
The Dalles.	Wasco.	112	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	S. L. Brooks.
Toledo.	Lincoln.	75</																		

TABLE 2.—*Daily precipitation for August, 1911. District No. 12, Columbia Valley.*

TABLE 2.—*Daily precipitation for August, 1911. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Idaho—Continued.</i>																																	
Mountain Home.	Snake.																																0.00
Murtaugh	do.																																0.00
Nezperce.	Clearwater.	.18			.27			.53																								.02	
Oakley.	Snake.																																1.00
O'Hara Bar.	Clearwater.	T.	.28	T.	.03	.52	.26	.03																								T.	
Orofino.	do.	T.	.03	T.	.03	.52	.01																									1.09	
Payette.	Payette.																																0.59
Peaceful Valley.	Snake.																																T.
Pebble.	Port Neuf.																																T.
Pierson.	Salmon.																																0.00
Pleasant Valley.	Bolse.																																0.01
Pocatello.	Port Neuf.							.01																									0.00
Pocatello Nursery.	do.																																T.
Poplar.	Snake.																																0.00
Porthill.	Kootenai.							.19	.35	.63	.10																				T.	1.27	
Pyle Creek.	Payette.																																0.00
Richfield.	Wood-Malad.																																0.00
Roseberry.	Payette.	.15																															0.15
Roseworth.	Snake.							.24																									0.24
Rupert.	do.							T.																									T.
St. Maries.	St. Joe.	.24	.02	.20	.03	.30	.05																										0.87
Salmon.	Salmon.	.07	.14	.05		.01																											0.27
Salmon River Dam.	P. d'Oreille.																																T.
Sandpoint.	T.	.11	.17			.80	.05	.02																								0.19	
Sheep Hill.	Bolse.																																1.20
Shoshone.	Wood-Malad.																																0.00
Silver City.	Owyhee.							.02																									0.02
Soldier Creek.	Wood-Malad.																																0.00
Spirit Lake.	P. d'Oreille.																																T.
Springfield.	Snake.			T.	T.																												T.
Sugar II.	do.	.02		.01																													T.
Sunnyside.	Payette.																																T.
Tripod Mountain.	Snake.							.04																									0.00
Twin Falls.	do.							.06																									0.04
Vernon.	C. d'Alene.	.84	.02	T.	.13	.26	.42	.65																								0.08	
Wallace.	Wood-Malad.																																2.70
Wendell.																																	0.00
<i>Washington.</i>																																	
Aberdeen.	Coast.					.09	.59																										0.77
Anacortes.	Puget Sound.						.08																										1.16
Baker.	do.						T.																										2.73
Bellingham.	do.					.09		T.																									1.70
Bellingham (near).	do.					T.	.11																										1.38
Beverly.	Columbia.																																T.
Blaine.	Puget Sound.																																1.45
Bremerton.	Wenatchee.																																0.07
Brewster.	Puget Sound.																																0.41
Bumping Lake.	Columbia.	.05	T.	T.	.05	.08	.17	.06	T.																							0.41	
Cedar River.	Yakima.					.08																											0.42
Centralia.	Puget Sound.	.06	.12																														0.37
Cheney.	Coast.																																0.87
Cle Elum.	Yakima.					.58																											0.73
Clearbrook.	Coast.							.01	.04																							1.93	
Colfax.	Palouse.							.05																									0.05
Colville.	Columbia.	.12	T.	.02	T.	.24	.11	.03																							0.98		
Conconully.	Okanogan.	.08	.13	.02	T.	.24	.11	.03																							0.70		
Cowiche.	Yakima.				T.	.43	T.																									0.44	
Crescent.	Spokane.																																1.71
Davenport.	Columbia.					.41	.43	.64	.23																						0.07		
Dayton.	do.					.07																										1.23	
Deer Park.	Spokane.	.05						.81	.32																							0.14	
Detroit.	Puget Sound.																																0.03
Dixie.	Columbia.																																0.17
Dryden.	Wenatchee.																																

TABLE 2.—*Daily precipitation for August, 1911. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Washington—Con.</i>																																		
McConihe.	Columbia.	.22																																0.57
McCumber's ranch.	do.																																0.00	
Moses Lake.	do.	.05																															0.32	
Mottinger.	do.	.38																															0.38	
Mount Pleasant.	Coast.																																0.76	
Moxee.	Yakima.	T.	T.	T.	T.																												0.02	
Newport.	Pend Oreille.	.08	.31	.03	.46	T.	.51	.28	T.	T.																						1.67		
North Head.	Coast.	.05																															0.23	
Northport.	Columbia.	.44	.01	T.	T.	.11	.17	.18	T.																						0.93			
North Yakima.	Yakima.	T.	T.	T.	T.	.11																									0.21			
Nutland.	Columbia.																															0.00		
Odessa.	do.																															0.50		
Olga.	Puget Sound.																															1.17		
Olympia.	do.																															0.22		
Omak.	Okanogan.	T.	.11	T.																												0.73		
Oroville.	do.	T.	.25																													0.83		
Parker.	Yakima.																																	
Peola.	Snake.	.04	.52	.09																													.01	
Pomeroy.	do.	T.																														T.	0.68	
Port Crescent.	Coast.																																0.42	
Port Townsend.	Puget Sound.																																0.84	
Pullman.	Palouse.	.08	.18	.10																													0.43	
Queets River.	Coast.	.04	.03	.01	T.	.01	.19	.15	T.																						0.87			
Quinault.	do.																															0.65		
Republic.	Kettle.	.03	.08	.03	.03																											0.84		
Rex Creek.	Columbia.																															0.19		
Ritzville.	do.																															0.55		
Rock Lake.	Palouse.																															1.07		
Rosalia.	do.	.06	.03	.46	.03																											1.37		
Russells Ranch.	Yakima.	T.	.06	T.																												0.06		
Seattle.	Puget Sound.																															0.13		
Sedro Woolley.	do.																															2.96		
Sixprong.	Columbia.																															0.01		
Skagit Power Dam.	Puget Sound.																															1.63		
Snohomish.	do.																															0.69		
Snoqualmie Falls.	do.																															0.60		
Snyders Ranch.	Columbia.	T.																														0.28		
South Bend.	Coast.	.01	.01	.01	.01	.02	.13	.07																							0.63			
Spokane.	Spokane.	T.	.02	.01	.48																										1.16			
State University.	Puget Sound.	T.																														0.12		
Stokes Ranch.	Columbia.	T.	.05		.08	.05	.16	.08																							0.72			
Sullivan Lake.	Pend Oreille.	T.																																
Summer.	Puget Sound.	T.																														0.15		
Sunnyside.	Yakima.	T.	.08																													0.08		
Tacoma.	Puget Sound.	T.																														0.17		
Tatoosh Island.	Coast.	T.																														0.35		
Tieton.	Yakima.	T.																														1.22		
Tonasket.	Okanogan.	T.	.18	T.	T.	.27	T.																									0.38		
Touchet.	Columbia.	T.																														0.10		
Touchet Ridge.	do.	.10																														0.17		
Trinidad.	do.	.12																														0.76		
Vancouver.	do.																																	
Vashon Island.	Puget Sound.																																	
Wahluke.	Columbia.	.25		.25	.50																											1.15		
Wallace.	Okanogan.	.09	.02	.30	.03	.06	.32																								0.96			
Walla Walla.	Columbia.	T.																														0.02		
Washougal.	do.																															0.46		
Waterville.	do.	.11	.21	.50	.20																										1.46			
Wenatchee, near.	do.	.10		.28	.04																										0.48			
White Salmon.	do.																															0.10		
Wilbur.	do.																															0.69		
Wind River.	do.																															0.30		
Winthrop.	do.	T.	.02	.15	T.	T.	.30	.05																						1.07				
Yale.	do.																															0.25		
Zillah.	Yakima.	T.	T.	T.	T.	.18																									T.			
Zindel.	Snake.	T.	.91																															

TABLE 2.—*Daily precipitation for August, 1911. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Oregon—Continued																																		
Coquille River L. H.	Coast.	.03	.02	.21	.22	.06	.03																										0.07	
Cornucopia.	Snake.																																0.52	
Corvallis.	Willamette.																																0.02	
Cracker Creek.	Snake.	T.	T.	T.																													T.	
Crescent.	Deschutes.																																.03	
Dayville.	John Day.																																T.	
Deadwood.	Coast.	T.																															.17	
Diamond.	SE. drainage																																0.00	
Doraville.	Columbia.	.01	.01	T.	T.	.03	.01																									.38		
Drain.	Umpqua.																																0.00	
Dufur.	Columbia.																																0.03	
Duncan.	Umatilla.	.01	.10																														.11	
Echo.	do.	.09	.02																														0.00	
Ella.	Columbia.																																T.	
Embody.	SE. drainage																																0.00	
Eugene.	Willamette.																																0.00	
Fairview.	Coast.																																0.00	
Falls City.	Willamette.																																0.00	
Fir Glen.	Coast.																																0.00	
Florence.	do.	.01																															0.16	
Forest Grove.	Willamette.																																0.60	
Fort Rock.	SE. drainage																																0.05	
Gailee.	Rogue.																																0.00	
Gardiner.	Umpqua.																																0.30	
Glencoe.	Columbia.																																0.00	
Gibbon.	Umatilla.																																T.	
Glendale.	Umpqua.																																0.00	
Glenora.	Coast.																																0.79	
Gold Beach.	Rogue.																																0.00	
Golden Falls.	Coast.																																T.	
Granderonde.	do.																																	
Granite.	John Day.																																T.	
Grants Pass.	Rogue.																																0.00	
Grass Valley.	John Day.																																0.00	
Greenhorn.	Snake.	.02	.02	T.	.06																											0.10		
Gumboot.	do.	.09	.02	.46		.05																										0.62		
Gurdane.	Columbia.			.40																													0.40	
Happy Home.	Umpqua.																																0.14	
Hay Creek.	Deschutes.																																0.13	
Hazeldeil.	Willamette.																																0.00	
Headworks.	do.																																0.53	
Heppner.	Columbia.																																T.	
Hermiston.	Umatilla.	.52																															0.52	
Hermoso Rio.	Deschutes.																																0.16	
Hilgard.	Gd. Ronde.	T.		.60																												0.60		
Hood River.	Columbia.																																0.00	
Hoover.	Williamette.																																0.03	
Howardville.	Grnd. Ronde.																																0.09	
Huntington.	Snake.																																0.00	
Ibex Mine.	John Day.	.08	T.		T.																												0.08	
Ironside.	Snake.																																T.	
Jacksonville.	Rogue.																																0.00	
Joseph.	Grnd. Ronde.	.03	.50		.05	.07																										0.65		
Kerby.	Rogue.																																0.00	
Klamath Agency.	Klamath.																																0.00	
Klamath Falls.	do.																																T.	
LaGrande.	Grnd. Ronde.		.33																													0.33		
Lilyglen.	Rogue.																																0.00	
Long Creek.	John Day.		T.		.15	T.																										0.17		
Long Valley.	Pitt.																																0.00	
McKenzie Bridge.	Williamette.																																0.05	
McMinnville.	do.																																0.15	
Marshfield.	Coast.	.05	.04	.01	.01	.04	.06	.02																								T.	0.23	
Maury.	Deschutes.																																0.02	
Meacham.	Umatilla.																																T.	0.50
Medford.	Rogue.				</td																													

TABLE 2.—*Daily precipitation for August, 1911. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Oregon—Continued.</i>																																	
Rock Creek.....	Willamette.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	T.
Roseburg.....	Umpqua.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00
Rosland.....	Deschutes.....	.03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.28	
Salem.....	Willamette.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.	
Seneca.....	SE. drainage.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.	
Silver Lake.....	do.....	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.		
Siskiyou.....	Rogue.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		
Sisters.....	Deschutes.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.02		
Sparta.....	Snake.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.03		
Stafford.....	Willamette.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15		
Starkey.....	Grnd. Ronde.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.64		
Summit.....	Willamette.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.16		
Summit Prairie.....	Deschutes.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.		
Susanville.....	John Day.....	.06	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.22		
Tamarack.....	do.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.20		
Telocaset.....	Snake.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.01		
The Dalles.....	Columbia.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.38		
Timroo Cabin.....	Umatilla.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.60		
Toledo.....	Coast.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15		
Trail.....	Rogue.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.		
Trask.....	Coast.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.99		
Umatilla.....	Columbia.....	18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.18		
Unity.....	Snake.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.05		
Vale.....	Malheur.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.04		
Valley Falls.....	SE. drainage.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		
Van.....	Malheur.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.		
Wallace Orchard.....	Willamette.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.		
Wallowa.....	Grnd. Ronde.....	.04	.03	T.	.08	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15			
Wallowa.....	do.....	.07	.15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.22		
Wamic.....	Deschutes.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.30		
WarmSpring.....	do.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.03		
Wasco.....	Columbia.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.03		
Welches.....	do.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.56		
Westfall.....	Malheur.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.11		
Weston.....	Walla Walla.....	T.	T.	T.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T.		
Williams.....	Rogue.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		
Yonna.....	Int. drainage.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures at selected stations for August, 1911. District No. 12, Columbia Valley.*

Date.	Montana.				Wyoming.				Idaho.																			
	KalisPELL.		Missoula.		Afton.		Boise.		Bonners Ferry.		Hot Spring.		Lewiston.		Mackay.		Meadows.		Pocatello.		Salmon.		Shoshone.		Vernon.		Wallace.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	74	52	78	53	83	33	81	54	76	46	83	52	77	59	79	41	.....	.....	83	51	77	47	.....	.....	81	41	66	52
2....	65	52	72	52	70	42	79	50	75	45	83	57	84	58	78	41	.....	.....	76	56	66	52	.....	.....	70	45	75	50
3....	72	48	80	41	76	34	86	54	70	45	90	52	82	59	82	47	.....	.....	82	49	76	41	.....	.....	75	42	73	46
4....	71	51	86	53	78	34	81	51	73	42	89	52	89	55	75	45	.....	.....	80	49	75	45	.....	.....	76	43	74	46
5....	69	51	72	53	81	35	81	60	78	40	88	55	85	56	75	41	.....	.....	81	48	78	45	.....	.....	75	46	77	46
6....	65	50	75	44	74	43	87	55	68	40	92	54	82	62	83	48	.....	.....	81	54	73	46	.....	.....	75	42	67	47
7....	64	47	84	48	83	37	86	54	68	49	92	55	82	59	81	46	.....	.....	89	57	82	43	.....	.....	82	41	72	51
8....	70	45	78	40	84	38	88	54	69	39	91	55	85	52	90	45	.....	.....	88	56	84	43	.....	.....	83	45	74	40
9....	68	46	78	48	86	36	82	54	74	40	88	52	84	54	91	44	.....	.....	85	52	83	48	.....	.....	84	46	75	43
10....	72	43	82	38	81	37	86	52	83	38	91	45	90	52	88	49	.....	.....	85	54	81	45	.....	.....	80	46	81	43
11....	76	45	87	46	84	36	89	55	85	46	93	55	90	63	89	45	.....	.....	90	59	89	46	.....	.....	86	42	83	46
12....	80	48	91	45	86	39	90	56	82	42	92	50	89	58	89	45	.....	.....	91	64	87	43	.....	.....	86	45	80	46
13....	81	48	88	46	84	40	88	54	80	48	93	56	90	56	86	46	.....	.....	90	64	90	45	.....	.....	85	42	80	47
14....	82	46	89	44	85	38	90	54	80	42	92	57	90	54	84	47	.....	.....	90	61	88	46	.....	.....	86	52	80	43
15....	76	48	85	43	86	40	84	52	80	47	94	58	83	60	87	45	.....	.....	87	54	87	45	.....	.....	84	42	77	46
16....	78	46	88	44	79	34	91	53	84	40	93	56	95	53	87	44	.....	.....	90	47	87	44	.....	.....	84	40	87	41
17....	82	47	94	44	90	39	93	58	86	41	94	59	102	55	87	45	.....	.....	93	51	88	45	.....	.....	89	47	92	44
18....	84	52	95	48	90	37	94	58	91	41	92	57	93	63	89	45	.....	.....	94	56	93	46	.....	.....	90	46	87	48
19....	87	51	96	48	89	38	87	62	80	45	94	54	84	59	96	43	.....	.....	94	55	91	47	.....	.....	89	48	80	47
20....	64	49	71	56	81	41	75	54	78	44	90	53	74	52	100	41	.....	.....	77	54	80	42	.....	.....	75	36	82	48
Mns..	74.1	46.6	82.3	45.3	81.1	35.5	85.2	53.8	78.5	43.3	89.7	52.6	87.1	55.5	84.1	44.6	.....	.....	84.7	51.9	81.9	44.1	.....	.....	80.8	41.6	77.3	44.6

## Washington.

Date.	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Six-prong.		Spokane.		Tacoma.		Tatoosh Island.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	64	52	71	53	83	46	64	53	80	50	62	53	80	60	\$2	52	58	48	67	54	78	62	74	56	68	53	56	51
2....	65	50	69	49	87	47	74	54	87	57	61	54	86	56	79	52	61	50	67	57	88	67	79	52	66	53	56	50
3....	64	51	72	50	80	57	73	55	84	59	60	54	85	63	85	49	58	50	74	54	85	62	75	58	74	55	55	51
4....	66	52	71	53	77	45	73	52	78	50	58	53	86	56	80	45	60	49	68	55	90	73	78	53	69	53	54	50
5....	66	51	70	50	77	48	80	48	84	53	59	53	86	56	75	46	60	49	73	53	88	61	76	50	74	52	55	49
6....	66	51	65	55	72	44	65	55	79	59	59	54	82	58	70	41	62	51	64	55	83	62	64	55	64	55	54	51
7....	66	50	69	52	73	54	66	52	78	56	62	55	81	53	75	42	62	51	71	54	82	54	69	55	77	57	51	51
8....	68	52	72	47	78	46	74	48	80	56	57	54	84	54	78	43	58	49	72	53	85	51	75	51	72	52	54	49
9....	68	51	70	44	82	42	72	48	85	56	55	52	83	57	82	41	57	49	71	51	86	59	78	54	73	52	52	49
10....	67	52	68	44	85	40	68	52	87	56	55	52	87	56	86	46	58	48	70	50	90	58	81	49	69	51	54	49
11....	68	49	65	51	88	46	68	52	89	56	56	52	88	59	58	47	58	50	62	52	89	61	85	60	60	52	54	49
12....	66	48	66	47	85	42	68	51	88	57	56	53	90	55	88	45	58	48	62	55	89	52	82	56	54	48	51	49
13....	69	46	69	47	86	40	71	53	86	58	59	53	90	52	86	47	60	41	67	54	91	53	81	57	66	53	59	49
14....	70	49	69	43	83	37	73	47	88	54	61	54	85	55	85	41	61	46	65	54	90	51	85	51	65	52	58	47
15....	72	48	68	52	82	47	77	50	84	57	65	54	86	54	86	45	63	54	83	58	78	57	69	54	67	48	67	48
16....	68	46	73	40	83	57	89	54	62	53	88	54	88	45	69	40	73	51	91	55	85	51	73	47	63	48	68	48
17....	69	40	75	42	92	40	80	38	92	54	63	56	92	62	95	51	66	42	78	51	96	65	89	53	79	52	58	50
18....	72	42	74	52	95	42	82	40	94	62	62	56	89	60	93	52	62	44	76	53	95	60	90	56	76	51	53	47
19....	69	48	73	47	82	47	70	52	87	65	61	56	83	66	83	48	55	45	69	54	83	42	80	57	66	52	57	48
20....	72	56	60																									

TABLE 3.—*Maximum and minimum temperatures at selected stations for August, 1911. District No. 12—Continued.*

Date.	Walla Walla, Wash.		Oregon.																			
			Ashland.		Baker.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.		The Dalles.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	77	63	81	50	69	52	76	52	.....	.....	88	62	66	53	68	58	90	38	72	54	.....	.....
2.....	86	60	82	49	76	48	79	47	.....	.....	89	59	66	49	72	57	94	40	84	50	.....	86 47
3.....	82	62	84	54	66	47	73	48	.....	.....	89	59	64	54	71	59	90	41	79	51	.....	83 46
4.....	87	60	84	52	73	44	76	52	.....	.....	91	54	66	54	73	57	87	45	81	56	.....	89 45
5.....	86	58	85	53	75	46	82	49	.....	.....	92	56	64	53	78	58	86	34	86	53	.....	90 48
6.....	82	63	84	52	77	50	78	52	.....	.....	85	61	65	55	70	57	86	39	79	51	.....	87 47
7.....	79	58	85	55	79	45	72	55	.....	.....	82	58	66	54	70	56	89	42	77	52	.....	93 48
8.....	82	56	81	51	79	45	75	47	.....	.....	87	57	68	50	74	52	90	41	78	51	.....	90 46
9.....	83	58	82	50	74	54	78	48	.....	.....	87	57	65	53	73	56	90	43	83	48	.....	89 48
10.....	91	61	80	56	82	47	77	48	.....	.....	92	47	63	53	71	56	87	43	76	50	.....	88 55
11.....	86	63	81	48	83	49	70	55	.....	.....	92	62	66	53	68	55	89	40	78	54	.....	95 41
12.....	88	60	86	51	84	50	74	43	.....	.....	93	62	62	44	68	56	90	42	80	47	.....	97 51
13.....	89	61	82	51	81	46	73	51	.....	.....	92	57	66	49	70	52	91	46	70	51	.....	96 57
14.....	88	62	80	53	83	51	70	50	.....	.....	85	56	69	46	71	57	86	41	69	49	.....	93 45
15.....	82	58	83	48	78	42	75	52	.....	.....	87	55	70	43	75	58	83	41	78	56	.....	91 42
16.....	91	59	78	46	88	47	80	46	.....	.....	92	48	73	42	82	51	86	41	83	45	.....	97 40
17.....	94	63	81	51	91	52	80	49	.....	.....	98	51	73	43	81	55	84	45	84	48	.....	101 47
18.....	92	64	85	52	88	51	81	48	.....	.....	95	61	72	46	82	53	86	34	84	47	.....	99 51
19.....	81	61	77	49	81	49	72	53	.....	.....	90	59	70	54	87	60	90	38	76	52	.....	93 50
20.....	76	57	78	46	68	42	73	47	.....	.....	88	60	70	45	70	58	86	40	78	47	.....	83 54
21.....	81	54	88	50	73	41	84	47	.....	.....	92	61	69	47	85	55	89	40	87	47	.....	83 44
22.....	83	55	91	54	77	46	89	48	.....	.....	89	47	79	55	88	61	90	44	93	51	.....	91 47
23.....	84	55	91	57	74	44	90	51	.....	.....	89	52	69	53	90	62	91	47	93	51	.....	86 47
24.....	89	58	88	54	78	41	88	48	.....	.....	92	45	68	54	89	61	91	41	92	50	.....	87 41
25.....	88	63	90	56	81	41	86	52	.....	.....	92	43	65	50	86	60	86	35	90	52	.....	94 37
26.....	85	54	86	54	77	49	85	50	.....	.....	89	45	70	53	86	60	88	36	88	51	.....	88 45
27.....	89	56	84	55	81	41	87	50	.....	.....	92	42	64	49	89	60	92	40	88	50	.....	89 41
28.....	88	66	85	56	81	47	83	49	.....	.....	91	43	66	52	72	58	88	39	87	49	.....	95 40
29.....	87	61	87	54	81	47	83	49	.....	.....	92	53	71	45	80	52	85	43	87	51	.....	95 43
30.....	93	65	88	55	86	47	85	50	.....	.....	93	57	70	43	84	60	77	36	89	50	.....	98 49
31.....	95	65	88	58	90	54	83	55	.....	.....	97	57	64	52	85	61	80	34	86	55	.....	97 45
Means.....	85.9	60.0	84.0	52.3	79.2	46.9	79.4	49.7	.....	.....	90.4	54.4	67.7	49.9	77.0	57.1	87.9	40.5	82.4	50.6	.....	91.3 46.4

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